

# PRODUCT SUMMARY

## YORK® YZ Water-Cooled Magnetic Bearing Centrifugal Chiller



### Advanced Technologies of the YORK® YZ Chiller



#### Capacity Control Logic

Patented YORK® control technology provides **rapid response** to the load on the building, ensuring the YZ does not waste energy or work harder than needed.



#### Variable-Speed Drive

The YZ, with VSD standard, as well as variable geometry diffuser and magnetic bearing technology, delivers up to **35%** annual energy savings versus traditional fixed-speed oil bearing chillers.



#### OptiView™ Control Panel with Connected Services

Offers over **100** setpoints, readouts, alerts, trending reports and more. Data can also be securely connected to analytics platform for remote monitoring and predictive diagnostics.



#### Magnetic Bearing Driveline

Offers outstanding reliability and **80%** fewer moving parts than traditional oil- or refrigerant-lubricated drivelines.



#### Optimized Compressor

Optimized, single-stage design enables YORK® chillers to provide **best** real-world energy efficiency and the **widest** operating range at off-design conditions.



#### High-Speed Hermetic Induction Motor

The YZ will be the first magnetic bearing centrifugal chiller to utilize **reliable, robust,** and **low-maintenance** induction motors.



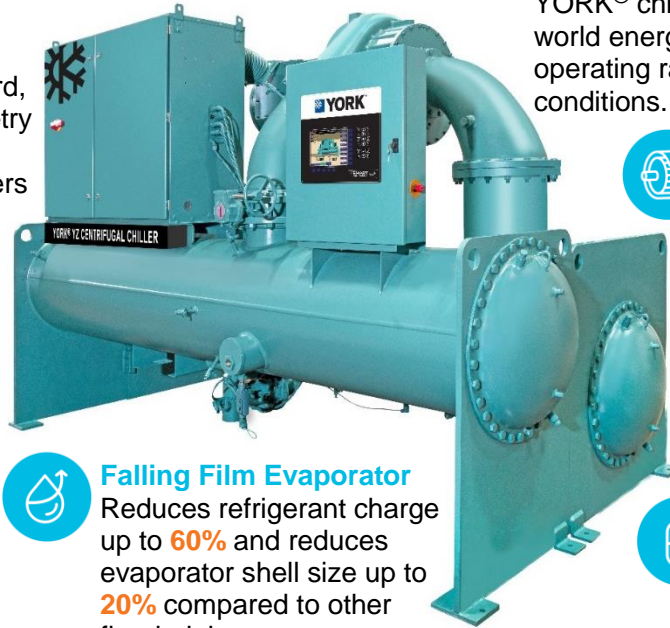
#### Falling Film Evaporator

Reduces refrigerant charge up to **60%** and reduces evaporator shell size up to **20%** compared to other flooded, low-pressure refrigerant designs.



#### Low-Pressure Chiller

Building upon decades of experience, the YZ has been **fully optimized** around R-1233zd, which has a GWP of **1**.





**The YORK® YZ chiller from the chiller experts is the industry's first chiller fully optimized for ultimate performance with a next generation low-GWP refrigerant, offering exceptional efficiency and operation.**

**Cooling Capacity: 165-1000 Tons (581-3516 kW)**

#### **From the Chiller Experts**

The YORK® YZ chiller is a revolutionary advancement that challenges everything about conventional chiller design. Built upon decades of industry-leading chiller expertise, our engineers questioned every component, analyzed every function and challenged every assumption.

#### **Optimized for Ultimate Performance**

The design premise for the YORK® YZ was simple: don't just make a new chiller – make the *best* chiller. This was accomplished through a holistic approach to system design and engineering, optimizing every component around a carefully selected next generation refrigerant for ultimate performance.

#### **Dramatically Lower Cost of Ownership**

To maximize value, the YORK® YZ design has been optimized to minimize operating costs by leveraging the benefits of a new refrigerant in our new heat exchangers and motor/compressor driveline while also mitigating the high cost of a next generation refrigerant.

#### **The New Definition of Sustainability**

True sustainability means the lowest total emissions – from beginning to end. Adapting a chiller design to a new refrigerant is not enough. That's why the YORK® YZ was specifically designed to maximize the potential energy efficiency of a low-GWP refrigerant. Our design optimization for the highest possible efficiency, combined with a low-GWP refrigerant, makes the YORK® YZ Centrifugal Chiller the best choice for the environment.

**Available January 2018 – visit [YORK.com/Next](http://YORK.com/Next) for more information.**



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Form: YZ Centrifugal Chiller Product Summary

Issue Date: November 2017

Supersedes: Nothing

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